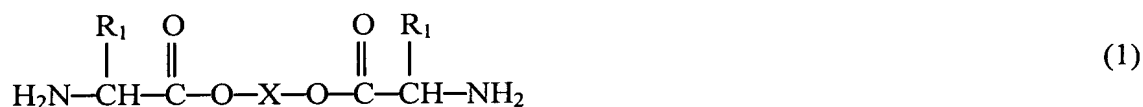


**The Listing of Claims with Claim Amendments**

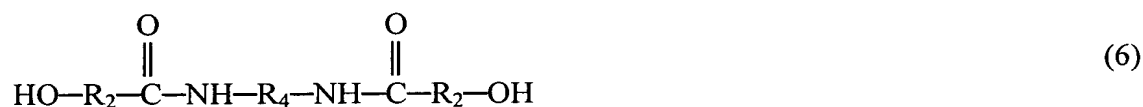
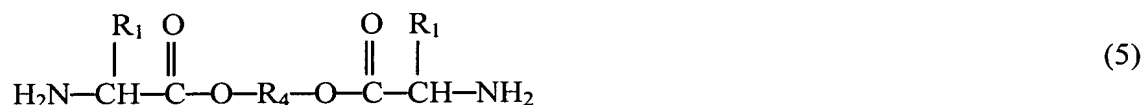
This listing of claims will replace all prior versions of the claims in this application:

1. (Original) A medical article comprising an implantable substrate having a coating, the coating including a polymeric product of a reaction between a first reagent, a second reagent, and a third reagent, wherein:

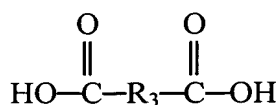
(a) the first reagent is selected from a group consisting of compounds having formulae (1), (2), (3), and (4):



(b) the second reagent is selected from a group consisting of compounds having formulae (5), (6), (7), and (8):



(c) the third reagent is a dicarboxylic acid having the formula (9):



(9)

wherein:

$\text{R}_1$  is hydrogen, methyl, *iso*-propyl, *sec*-butyl; *iso*-butyl, or benzyl group;

$\text{R}_2$  is methylene, methylenemethylene, *n*-propylene, *iso*-propylene, ethylenemethylene, *n*-butylene, *iso*-butylene, *sec*-butylene, or *n*-amylene group;

$\text{R}_3$  is a straight chained or branched aliphatic alkylene group  $\text{C}_n\text{H}_{2n}$ , wherein  $n$  is an integer between 2 and 12;

$\text{R}_4$  is a moiety derived from a compound selected from a group consisting of poly(ethylene glycol), poly(propylene glycol), random poly(ethylene glycol-co-propylene glycol), poly(ethylene glycol)-block-poly(propylene glycol), hyaluronic acid, poly(2-hydroxyethyl methacrylate), poly(3-hydroxypropylmethacrylamide), poly(styrene sulfonate), poly(vinyl pyrrolidone), and cellulose;

$\text{X}$  is a straight chained or branched aliphatic alkylene group  $\text{C}_n\text{H}_{2n}$ , wherein  $n$  is an integer between 2 and 12; and

$\text{Y}$  is a straight chained or branched aliphatic alkylene group  $\text{C}_n\text{H}_{2n}$ , wherein  $n$  is 1, 2, or 5.

2. (Original) The medical article of Claim 1, wherein the implantable substrate is a stent.

3. (Currently Amended) The medical article of Claim 1, wherein the compound of formula (1) is a diol-diamine, and wherein the diol-diamine is a product of condensation of an amino acid and a diol.

4. (Original) The medical article of Claim 3, wherein the amino acid has the formula (10):



5. (Original) The medical article of Claim 3, wherein the amino acid is selected from a group consisting of glycine, alanine, valine, isoleucine, leucine, and phenyl alanine.

6. (Original) The medical article of Claim 3, wherein a diol is selected from a group consisting of ethylene glycol, 1,3-propanediol, 1,4-butane diol, 1,5-pentanediol, 1,6-hexanediol, 1,7-heptanediol, 1,8-octanediol, 1,9-nonanediol, 1,10-decanediol, 1,11-undecanediol, and 1,12-dodecanediol.

7. (Currently Amended) The medical article of Claim 1, wherein the compound of formula (2) is an amidediol, and wherein the amidediol is a product of condensation of a hydroxy acid and a diamine.

8. (Original) The medical article of Claim 7, wherein the hydroxy acid has the formula (11):



9. (Original) The medical article of Claim 7, wherein the hydroxy acid is selected from a group consisting of glycolic acid, lactic acid,  $\beta$ -hydroxybutyric acid,  $\alpha$ -hydroxyvaleric acid, and  $\epsilon$ -hydroxycaproic acid.

10. (Original) The medical article of Claim 7, wherein the diamine is selected from a group consisting of putrescine, 1,2-ethanediamine, and cadavarene.

11. (Original) The medical article of Claim 1, wherein the compound of formula (3) is selected from a group consisting of ethylene glycol, 1,3-propanediol, 1,4-butanediol, 1,5-pentanediol, 1,6-hexanediol, 1,7-heptanediol, 1,8-octanediol, 1,9-nonanediol, 1,10-decanediol, 1,11-undecanediol, and 1,12-dodecanediol.

12. (Original) The medical article of Claim 1, wherein the compound of formula (4) is selected from a group consisting of putrescine, 1,2-ethanediamine, and cadavarene.

13. (Original) The medical article of Claim 1, wherein the compound of formula (5) is a PEG-diester-diamine conjugate, the conjugate is a product of condensation of an amino acid and poly(ethylene glycol).

14. (Original) The medical article of Claim 13, wherein the amino acid has the formula (10):



15. (Original) The medical article of Claim 13, wherein the amino acid is selected from a group consisting of glycine, alanine, valine, isoleucine, leucine, phenyl alanine, tyrosine, serine, and glutamic acid.

16. (Original) The medical article of Claim 1, wherein the compound of formula (6) is a PEG-amidediol conjugate, the conjugate is a product of condensation of a hydroxy acid and PEG-diamine.

17. (Original) The medical article of Claim 16, wherein the hydroxy acid has the formula (11):



18. (Original) The medical article of Claim 17, wherein the hydroxy acid is selected from a group consisting of glycolic acid, lactic acid,  $\beta$ -hydroxybutyric acid,  $\alpha$ -hydroxyvaleric acid, and  $\epsilon$ -hydroxycaproic acid.

19. (Currently Amended) A medical article comprising an implantable substrate having a coating, wherein the coating ~~including~~ includes a copolymer having a general formula (12) or (13):



wherein:

M is a moiety represented by the structure having the formula (14)



P is a moiety selected from a group consisting of structures having the formulae (15), (16), (17), and (18):



Q is a moiety selected from a group consisting of structures having the formulae (19), (20), and (21)





M<sub>1</sub> is a moiety represented by the structure having the formula (22):



R<sub>1</sub> is hydrogen, methyl, *iso*-propyl, *sec*-butyl; *iso*-butyl, or benzyl group;

R<sub>2</sub> is methylene, methylenemethylene, *n*-propylene, *iso*-propylene, ethylenemethylene, *n*-butylene, *iso*-butylene, *sec*-butylene, or *n*-amylene group;

R<sub>3</sub> is a straight chained or branched aliphatic alkylene group C<sub>n</sub>H<sub>2n</sub>, wherein n is an integer between 2 and 12;

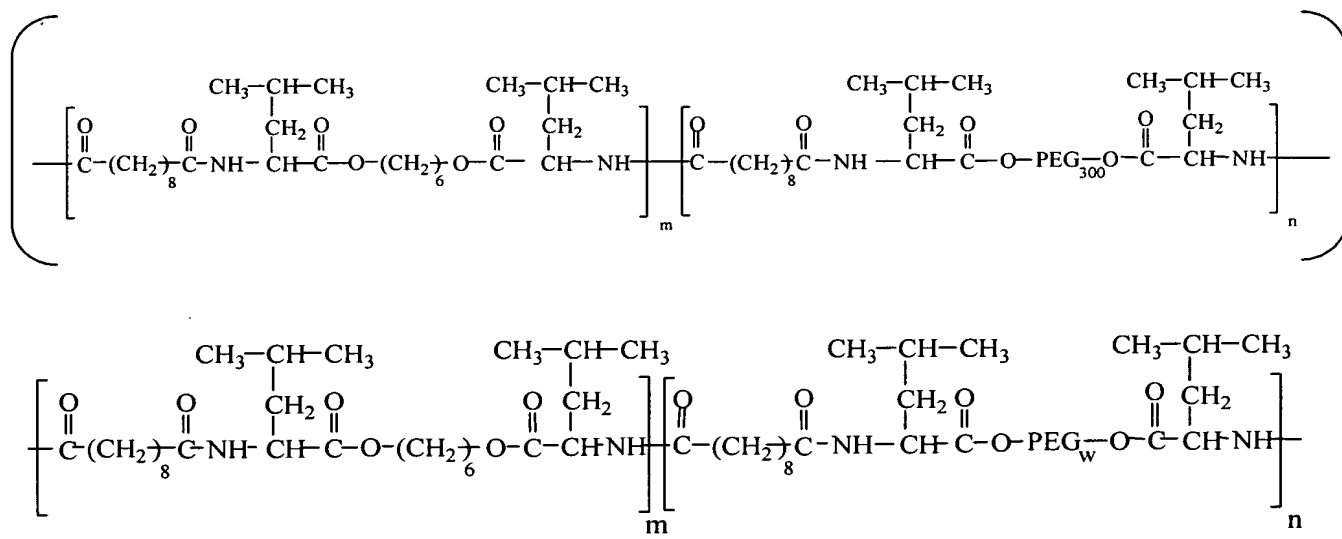
X is a straight chained or branched aliphatic alkylene group C<sub>n</sub>H<sub>2n</sub>, wherein n is an integer between 2 and 12;

Y is a straight chained or branched aliphatic alkylene group C<sub>n</sub>H<sub>2n</sub>, wherein n is 1, 2, or 5;

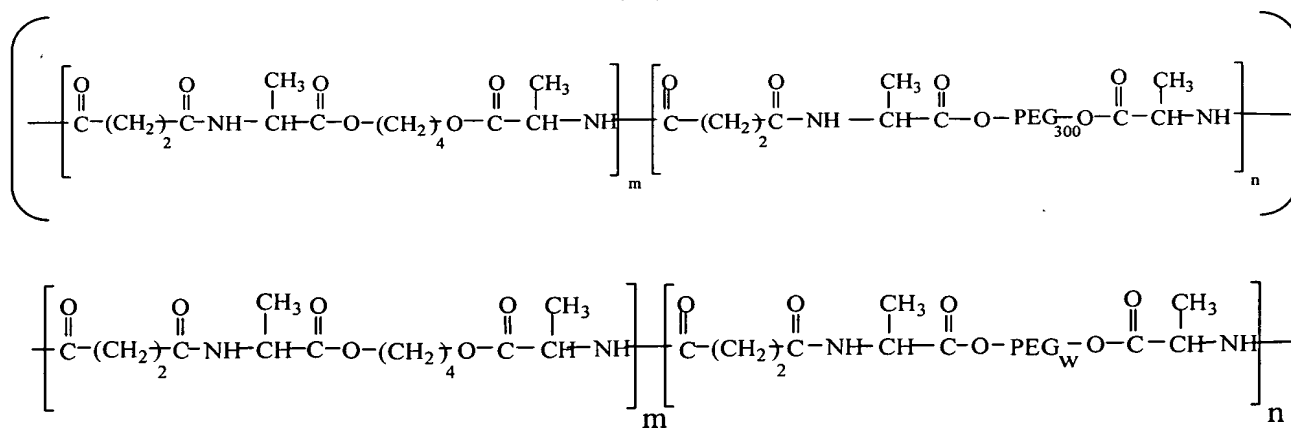
Z is a moiety derived from a compound selected from a group consisting of poly(ethylene glycol), poly(propylene glycol), random poly(ethylene glycol-co-propylene glycol), poly(ethylene glycol)-block-poly(propylene glycol), hyaluronic acid, poly(2-hydroxyethyl methacrylate), poly(3-hydroxypropylmethacrylamide), poly(styrene sulfonate), poly(vinyl pyrrolidone), and cellulose; and

m, n, and p are integers where the value of m is between 5 and 1,800, the value of n is between 1 and 800 and the value of p is between 4 and 1,500.

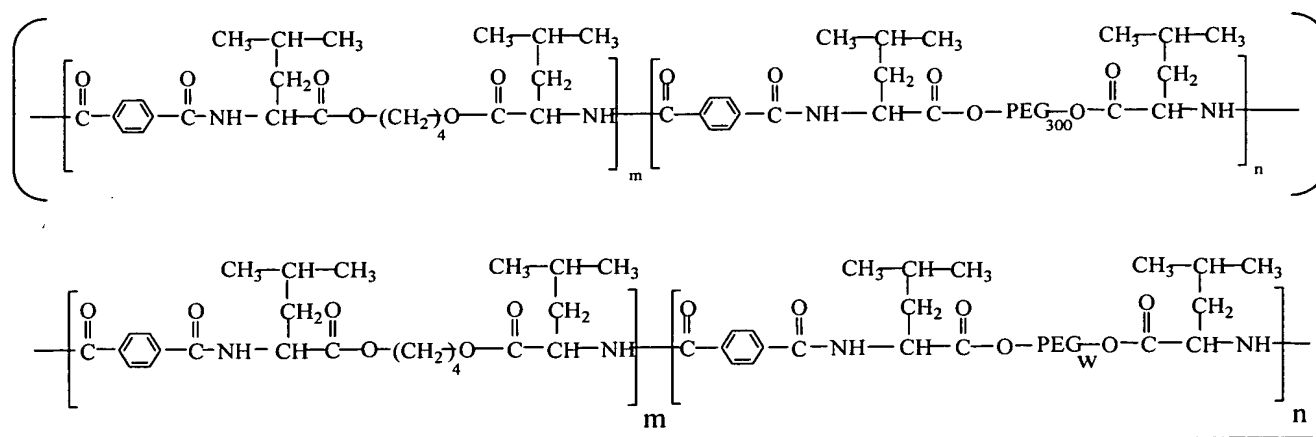
20. (Currently Amended) The medical article of Claim 19, wherein the polymer is selected from a group consisting of copolymers of formulae (23), (24), (25), (26), (27), (28), (29), (30), (31), (32), (33), (34), (35), (36), (37), (38), (39), (40), (41), (42), and (43):



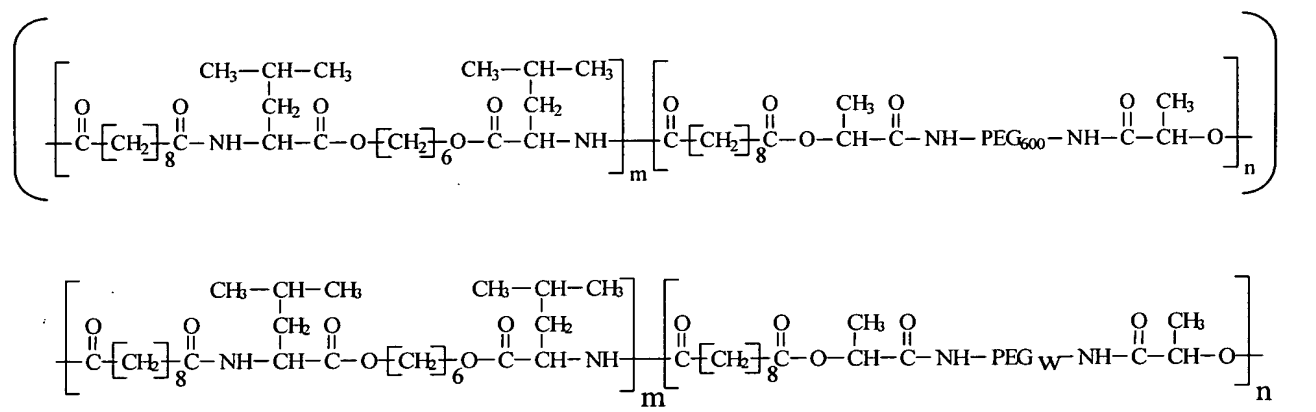
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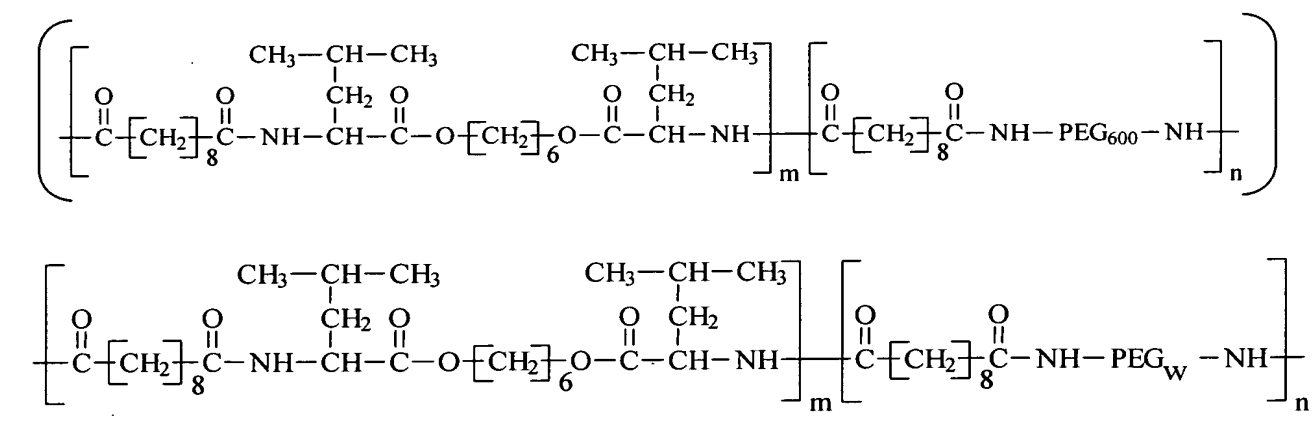
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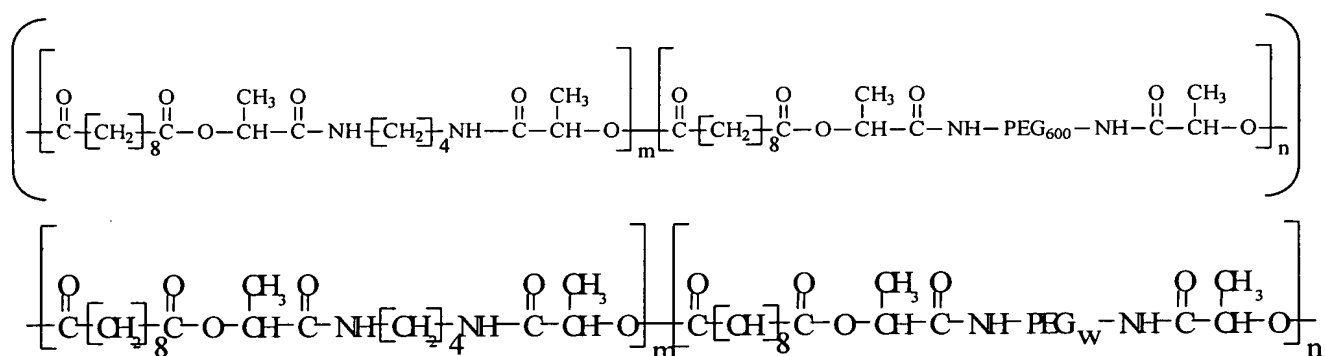


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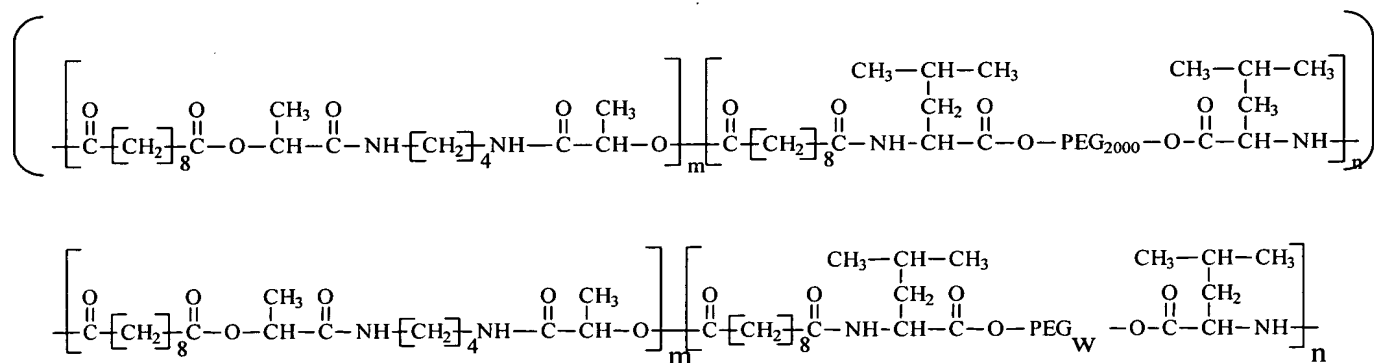


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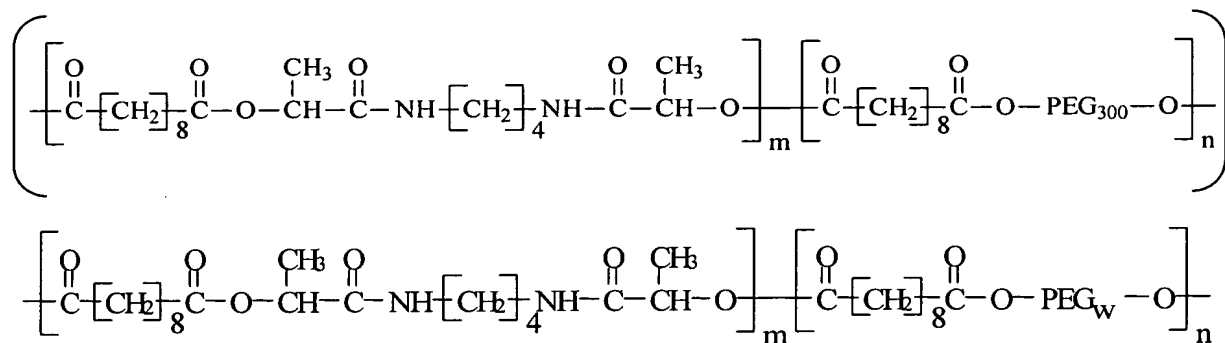




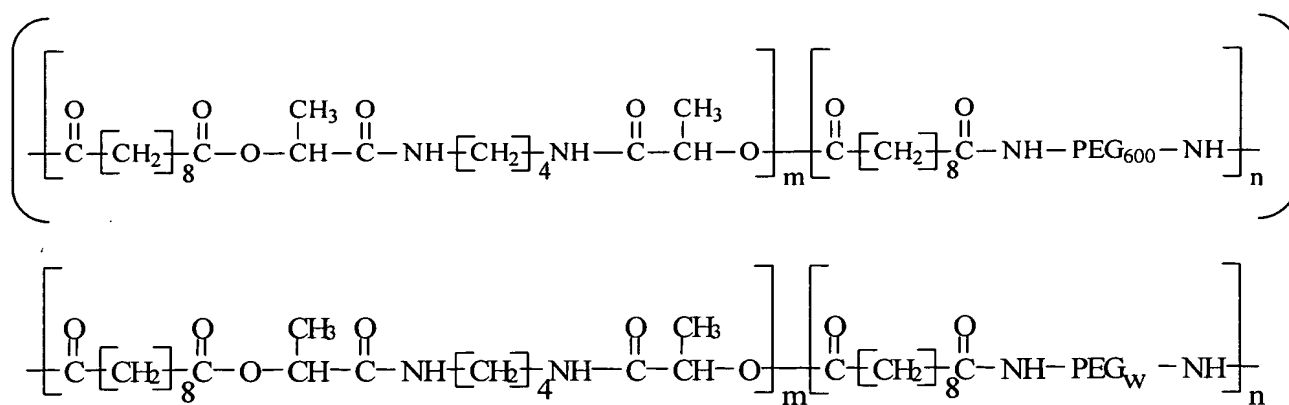
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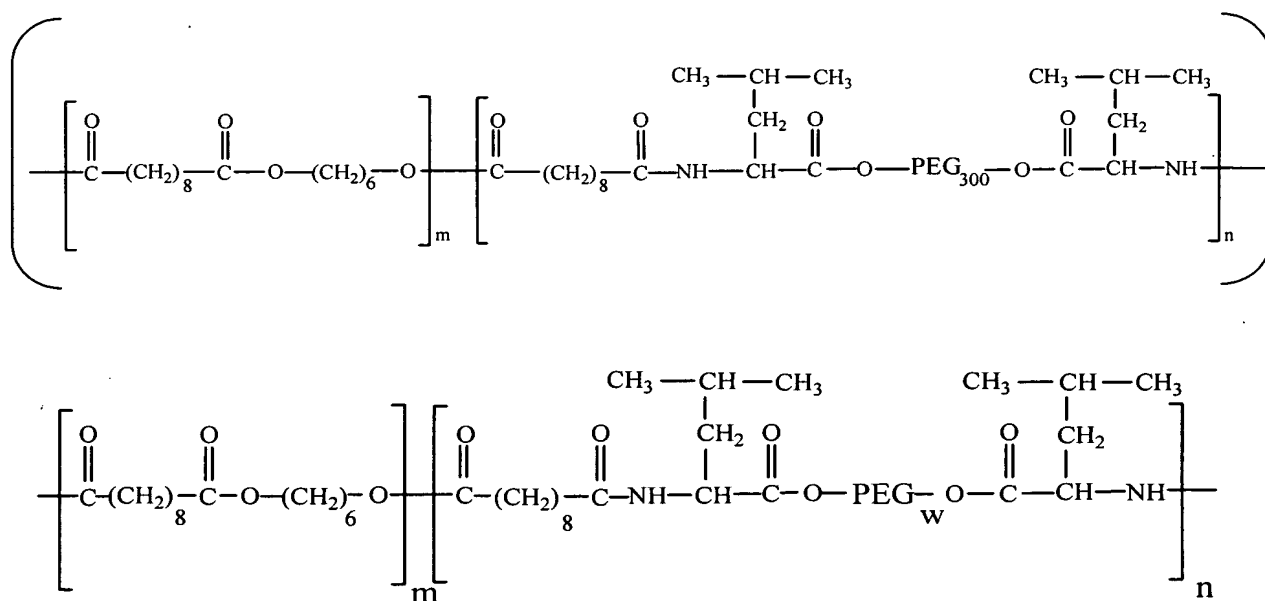
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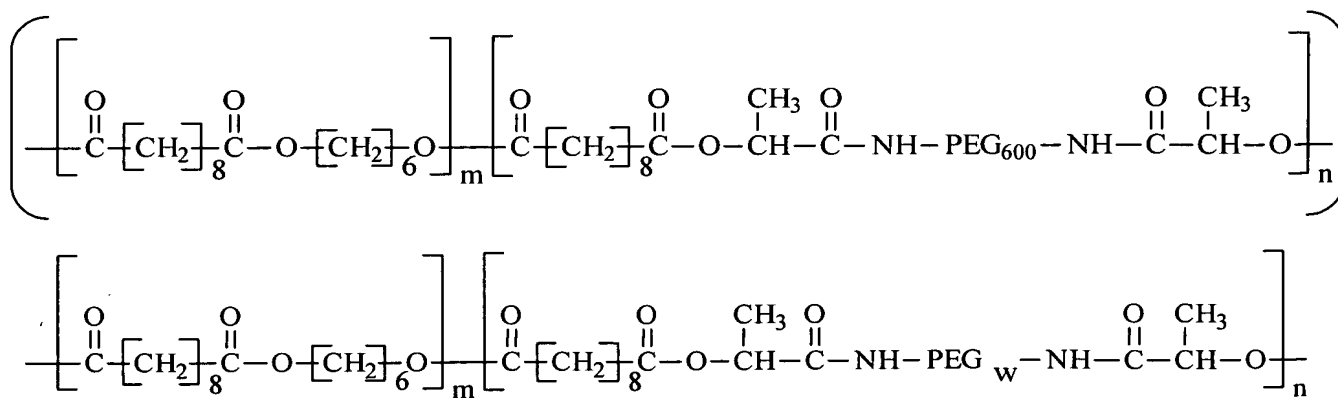
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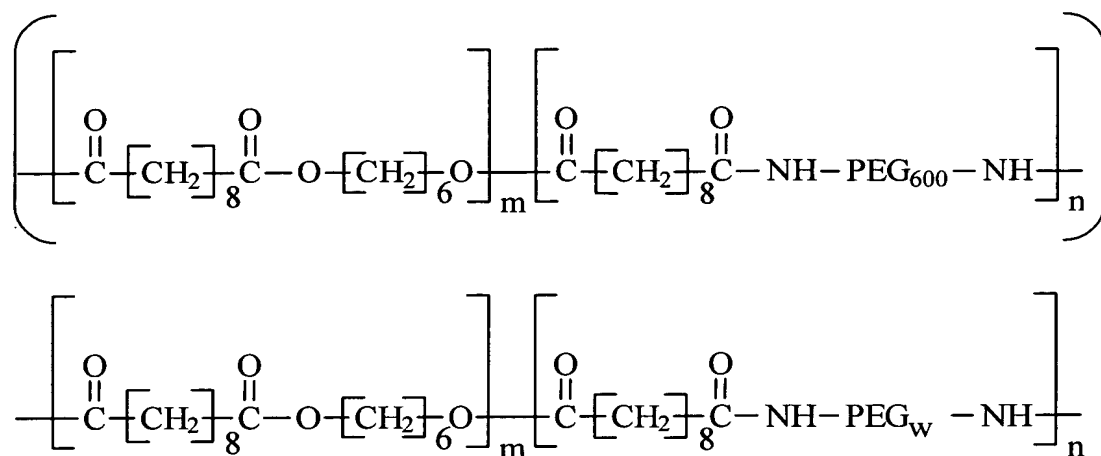
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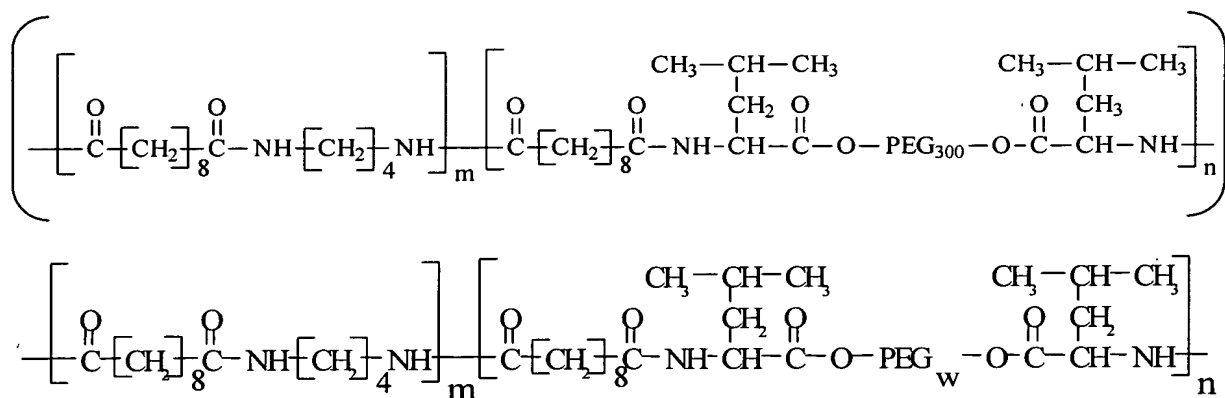
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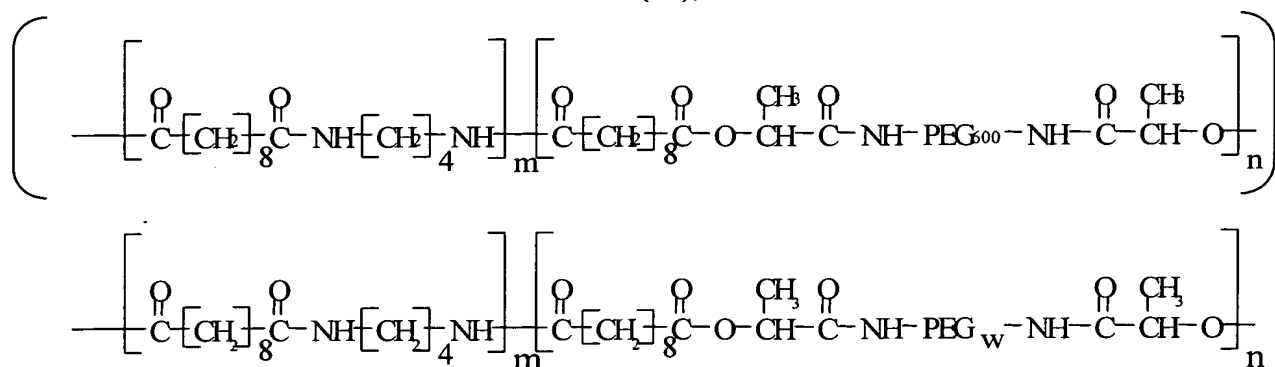
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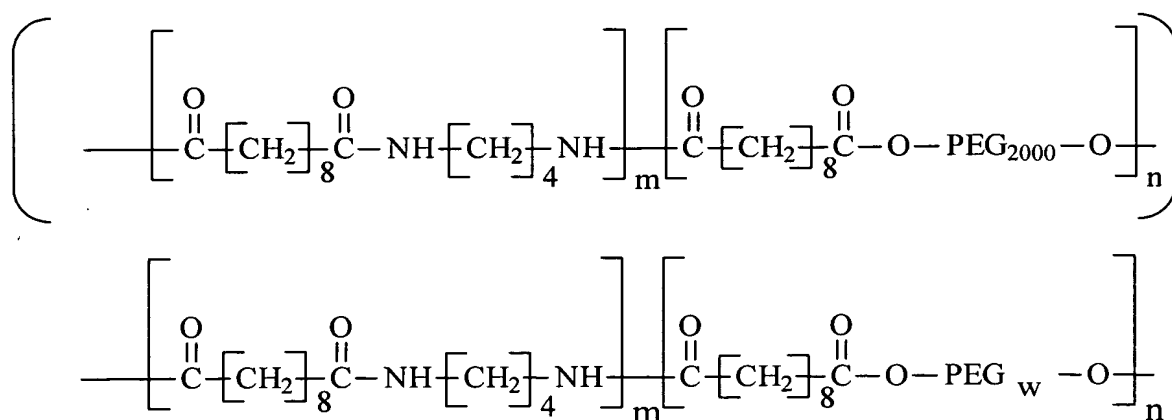
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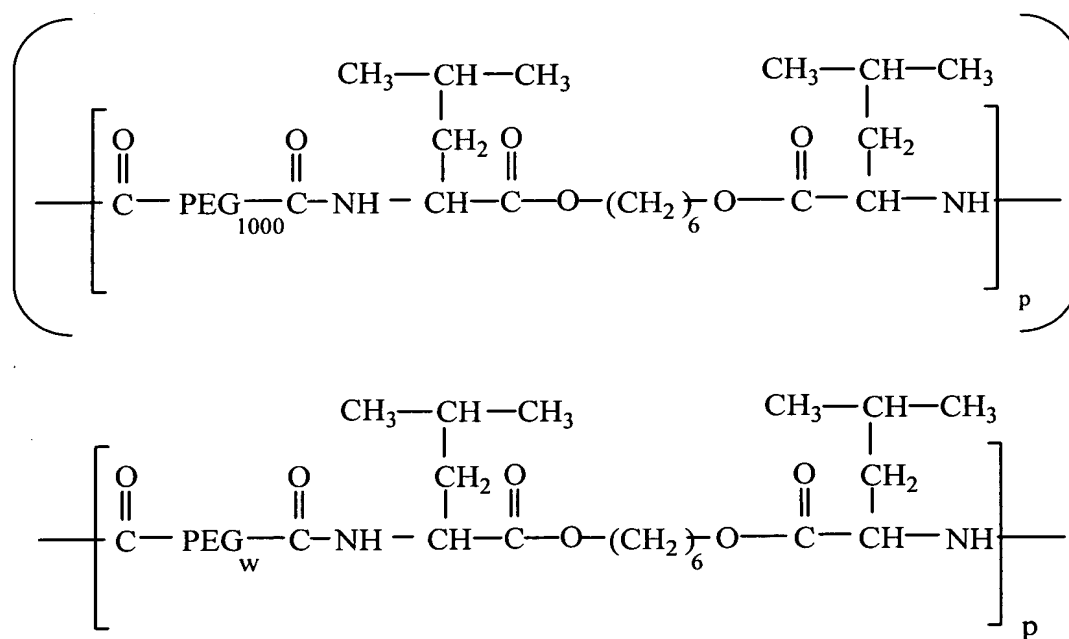
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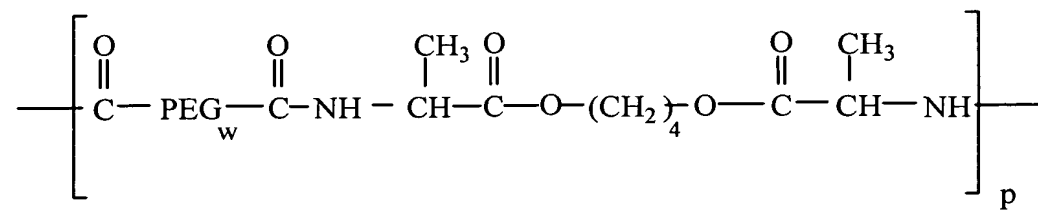
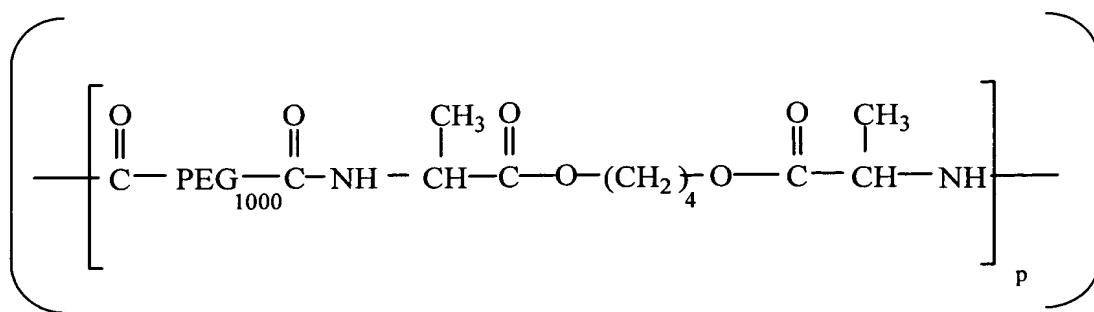
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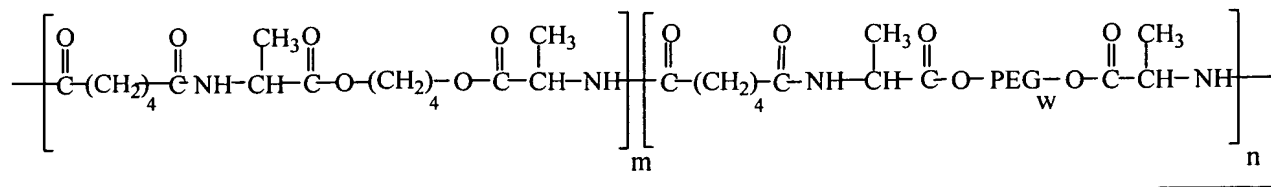
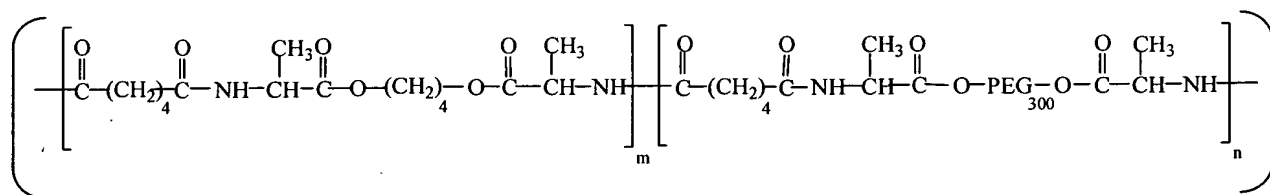
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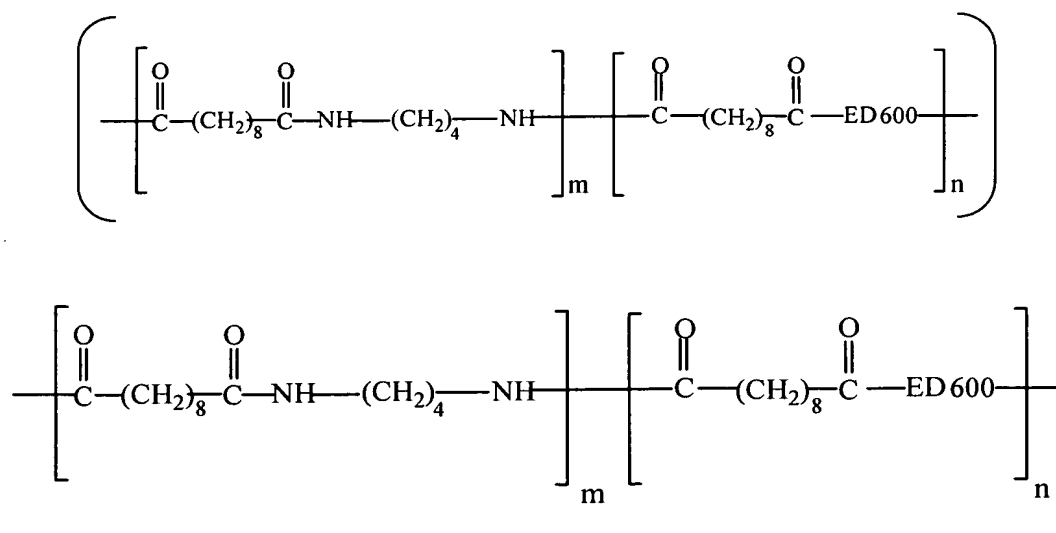
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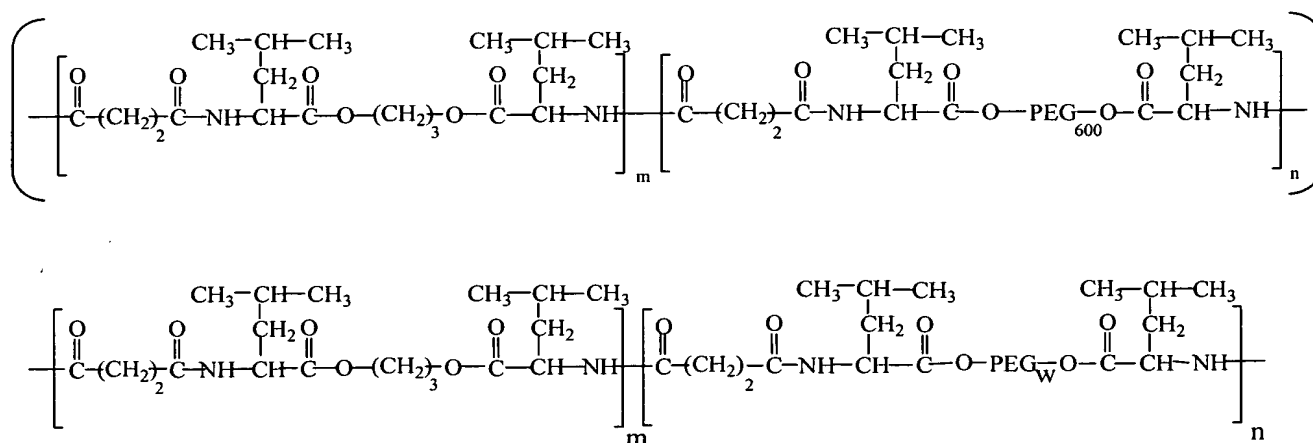
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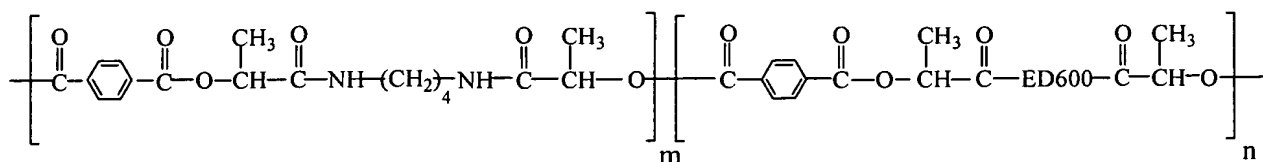
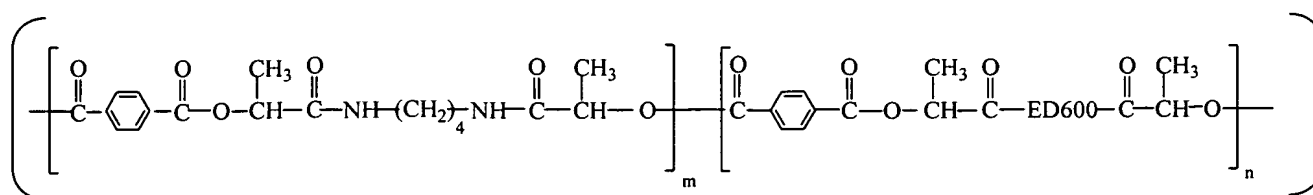
(40),



(41),



(42), and

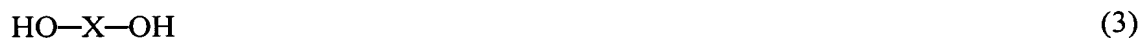


(43);

where m and n are integers, and w is a molecular weight ranging from about 100 to about 4,000 Daltons.

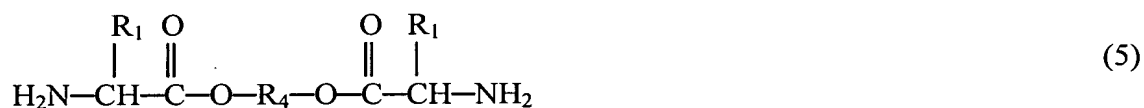
21. (Currently Amended) A method for fabricating a medical article, ~~the method including comprising~~ synthesizing a copolymer and forming a coating based on the copolymer on at least a portion of an implantable substrate, wherein the synthesizing of the copolymer ~~including comprises~~ reacting a first reagent with a second reagent and with a third reagent, wherein:

(a) the first reagent is selected from a group consisting of compounds having formulae (1), (2), (3), and (4):





(b) the second reagent is selected from a group consisting of compounds having formulae (5), (6), (7), and (8):



(c) the third reagent is a dicarboxylic acid having the formula (9):



wherein:

$\text{R}_1$  is hydrogen, methyl, *iso*-propyl, *sec*-butyl; *iso*-butyl, or benzyl group;

$\text{R}_2$  is methylene, methylenemethylene, *n*-propylene, *iso*-propylene, ethylenemethylene, *n*-butylene, *iso*-butylene, *sec*-butylene, or *n*-amylene group;

$\text{R}_3$  is a straight chained or branched aliphatic alkylene group  $\text{C}_n\text{H}_{2n}$ , wherein  $n$  is an integer between 2 and 12;

$\text{R}_4$  is a moiety derived from a compound selected from a group consisting of poly(ethylene glycol), poly(propylene glycol), random poly(ethylene glycol-co-propylene glycol), poly(ethylene glycol)-block-poly(propylene glycol), hyaluronic acid, poly(2-hydroxyethyl methacrylate), poly(3-hydroxypropylmethacrylamide), poly(styrene sulfonate), poly(vinyl pyrrolidone), and cellulose;



X is a straight chained or branched aliphatic alkylene group  $C_nH_{2n}$ , wherein n is an integer between 2 and 12;

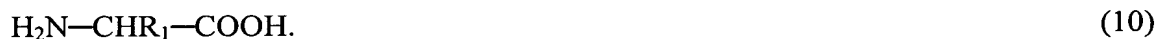
Y is a straight chained or branched aliphatic alkylene group  $C_nH_{2n}$ , wherein n is 1, 2, or 5.

22. (Original) The method of Claim 21, wherein the implantable substrate is a stent.

23. (Original) The method of Claim 21, wherein the molar ratio between the first reagent, the second reagent, and the third reagent is about 1:1:2.

24. (Original) The method of Claim 21, wherein the compound of formula (1) is a diol-diamine, the diol-diamine is a product of condensation of an amino acid and a diol.

25. (Original) The method of Claim 24, wherein the amino acid has the formula (10):



26. (Original) The method of Claim 24, wherein the amino acid is selected from a group consisting of glycine, alanine, valine, isoleucine, leucine, and phenyl alanine.

27. (Original) The method of Claim 24, wherein a diol is selected from a group consisting of ethylene glycol, 1,3-propanediol, 1,4-butane diol, 1,5-pentanediol, 1,6-hexanediol, 1,7-heptanediol, 1,8-octanediol, 1,9-nonanediol, 1,10-decanediol, 1,11-undecanediol, and 1,12-dodecanediol.

28. (Original) The method of Claim 21, wherein the compound of formula (2) is an amidediol, the amidediol is a product of condensation of a hydroxy acid and a diamine.

29. (Original) The method article of Claim 28, wherein the hydroxy acid has the formula (11):



30. (Original) The method of Claim 28, wherein the hydroxy acid is selected from a group consisting of glycolic acid, lactic acid,  $\beta$ -hydroxybutyric acid,  $\alpha$ -hydroxyvaleric acid, and  $\epsilon$ -hydroxycaproic acid.

31. (Original) The method of Claim 28, wherein the diamine is selected from a group consisting of putrescine, 1,2-ethanediamine, and cadavarene.

32. (Original) The method of Claim 21, wherein the compound of formula (3) is selected from a group consisting of ethylene glycol, 1,3-propanediol, 1,4-butane diol, 1,5-pentanediol, 1,6-hexanediol, 1,7-heptanediol, 1,8-octanediol, 1,9-nonanediol, 1,10-decanediol, 1,11-undecanediol, and 1,12-dodecanediol.

33. (Original) The method of Claim 21, wherein the compound of formula (4) is selected from a group consisting of putrescine, 1,2-ethanediamine, and cadavarene.

34. (Original) The method of Claim 21, wherein the compound of formula (5) is a PEG-diester-diamine conjugate, the conjugate is a product of condensation of an amino acid and poly(ethylene glycol).

35. (Original) The method of Claim 34, wherein the amino acid has the formula (10):



36. (Original) The method of Claim 34, wherein the amino acid is selected from a group consisting of glycine, alanine, valine, isoleucine, leucine, phenyl alanine, tyrosine, serine, and glutamic acid.

37. (Original) The method of Claim 21, wherein the compound of formula (6) is a PEG-amidediol conjugate, the conjugate is a product of condensation of a hydroxy acid and PEG-diamine.

38. (Original) The method of Claim 37, wherein the hydroxy acid has the formula (11):



39. (Original) The method of Claim 37, wherein the hydroxy acid is selected from a group consisting of glycolic acid, lactic acid,  $\beta$ -hydroxybutyric acid,  $\alpha$ -hydroxyvaleric acid, and  $\epsilon$ -hydroxycaproic acid.

40. (Original) A method for fabricating a medical article, the method including synthesizing a copolymer and forming a coating based on the copolymer on at least a portion of an implantable substrate, wherein the copolymer has a general formula (12) or (13):



wherein:

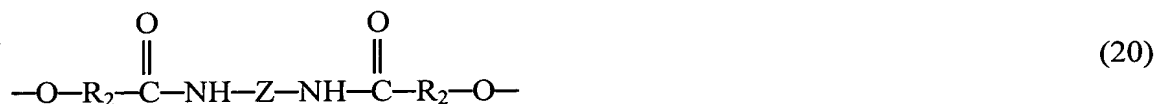
M is a moiety represented by the structure having the formula (14)



P is a moiety selected from a group consisting of structures having the formulae (15), (16), (17), and (18):



Q is a moiety selected from a group consisting of structures having the formulae (19), (20), and (21)



M<sub>1</sub> is a moiety represented by the structure having the formula (22):



R<sub>1</sub> is hydrogen, methyl, *iso*-propyl, *sec*-butyl, *iso*-butyl, or benzyl group;

R<sub>2</sub> is methylene, methylenemethylene, *n*-propylene, *iso*-propylene, ethylenemethylene, *n*-butylene, *iso*-butylene, *sec*-butylene, or *n*-amylene group;

R<sub>3</sub> is a straight chained or branched aliphatic alkylene group C<sub>n</sub>H<sub>2n</sub>, wherein n is an integer between 2 and 12;

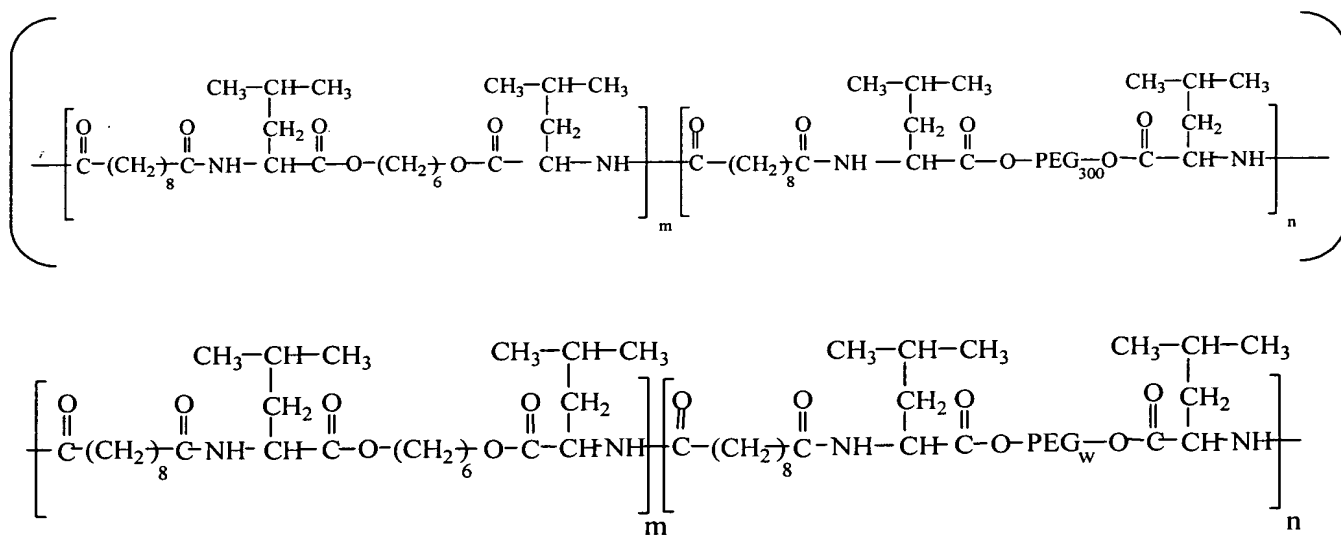
X is a straight chained or branched aliphatic alkylene group C<sub>n</sub>H<sub>2n</sub>, wherein n is an integer between 2 and 12;

Y is a straight chained or branched aliphatic alkylene group  $C_nH_{2n}$ , wherein n is 1, 2, or 5; and

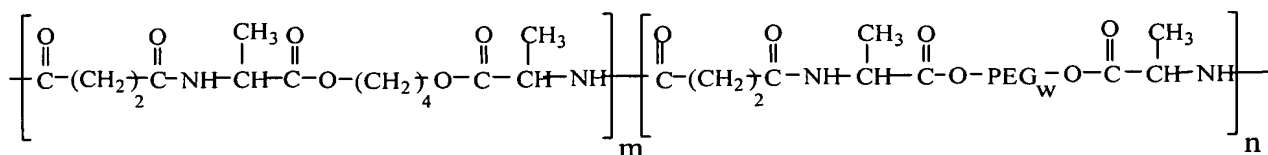
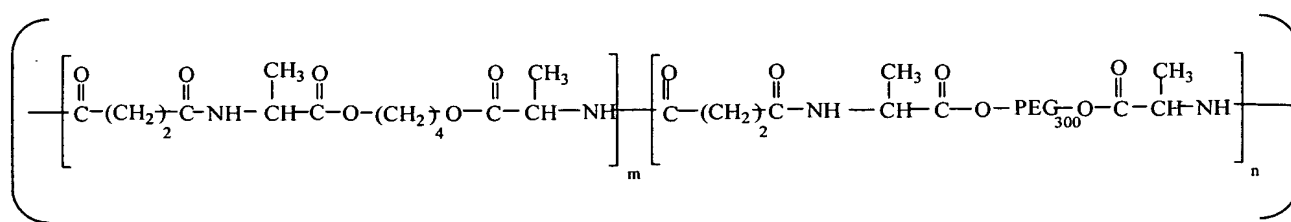
Z is a moiety derived from a compound selected from a group consisting of poly(ethylene glycol), poly(propylene glycol), random poly(ethylene glycol-co-propylene glycol), poly(ethylene glycol)-block-poly(propylene glycol), hyaluronic acid, poly(2-hydroxyethyl methacrylate), poly(3-hydroxypropylmethacrylamide), poly(styrene sulfonate), poly(vinyl pyrrolidone, and cellulose; and

m, n, and p are integers where the value of m is between 5 and 1,800, the value of n is between 1 and 800 and the value of p is between 4 and 1,500.

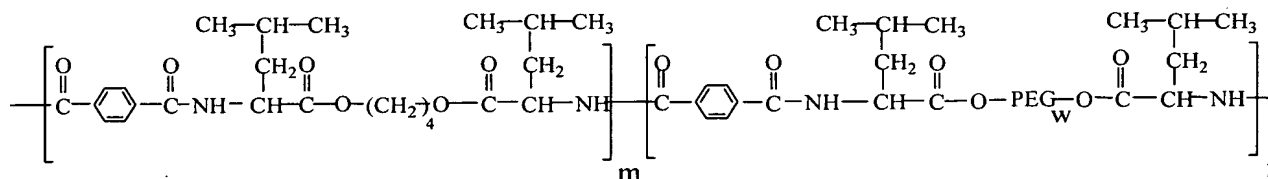
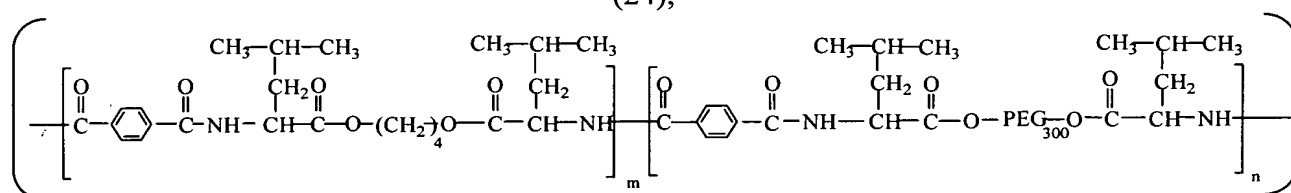
41. (Currently amended) The method of Claim 40, wherein the copolymer is selected from a group consisting of copolymers of formulae (23), (24), (25), (26), (27), (28), (29), (30), (31), (32), (33), (34), (35), (36), (37), (38), (39), (40), (41), (42), and (43):



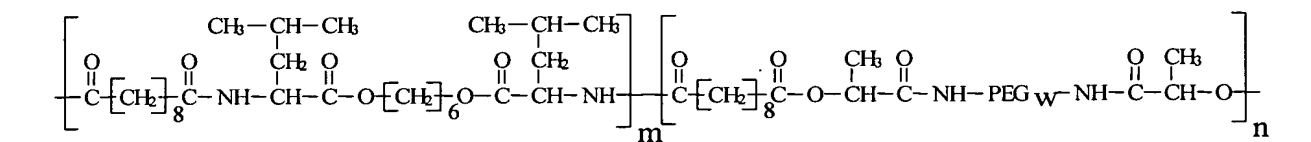
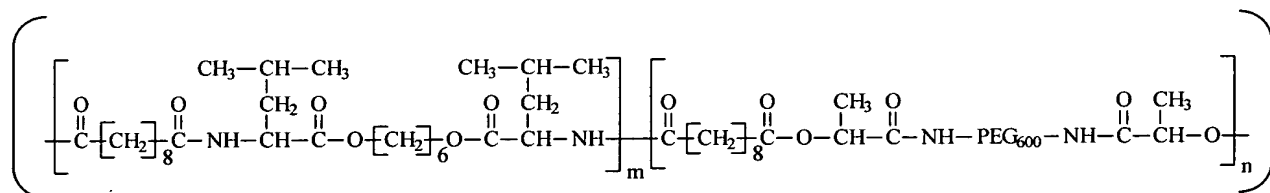
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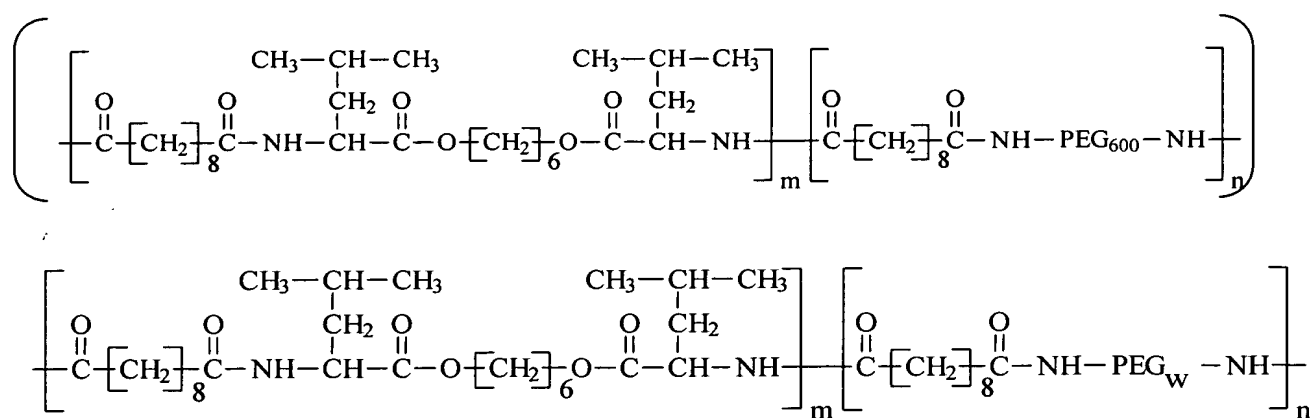
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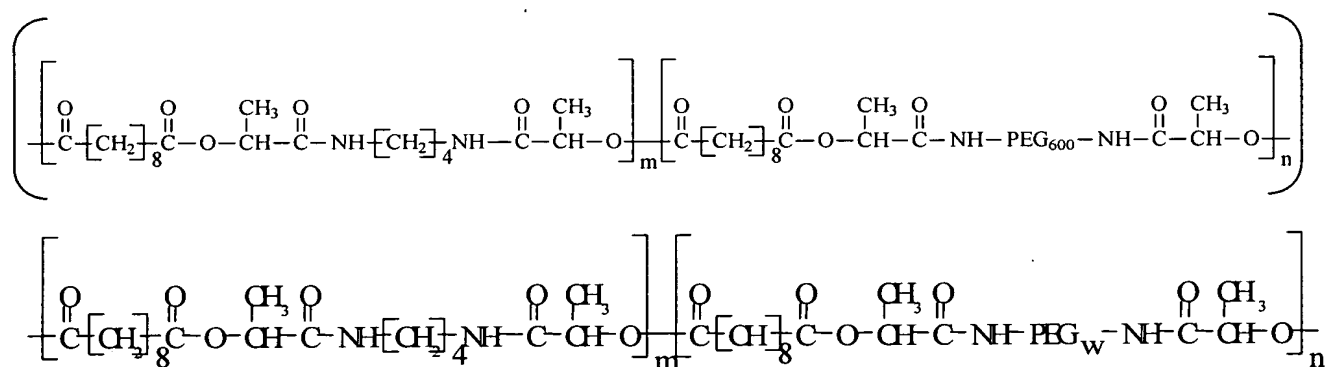
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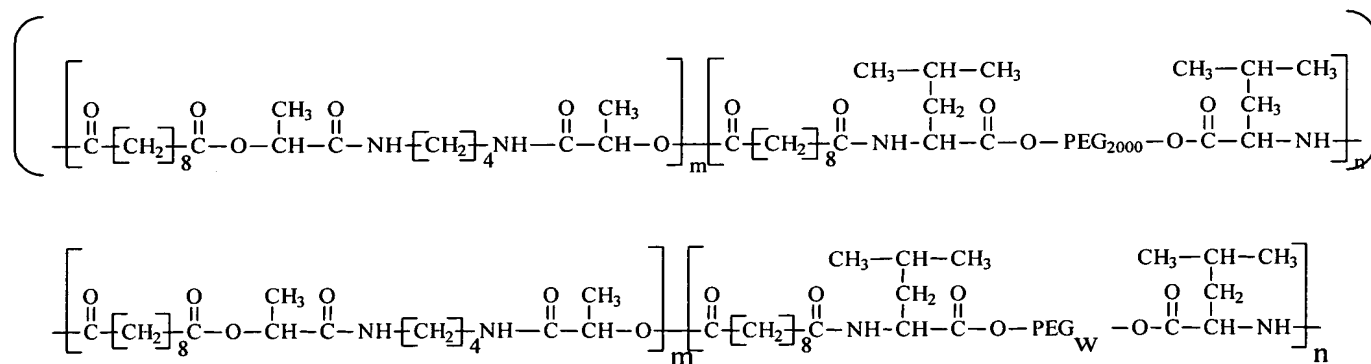
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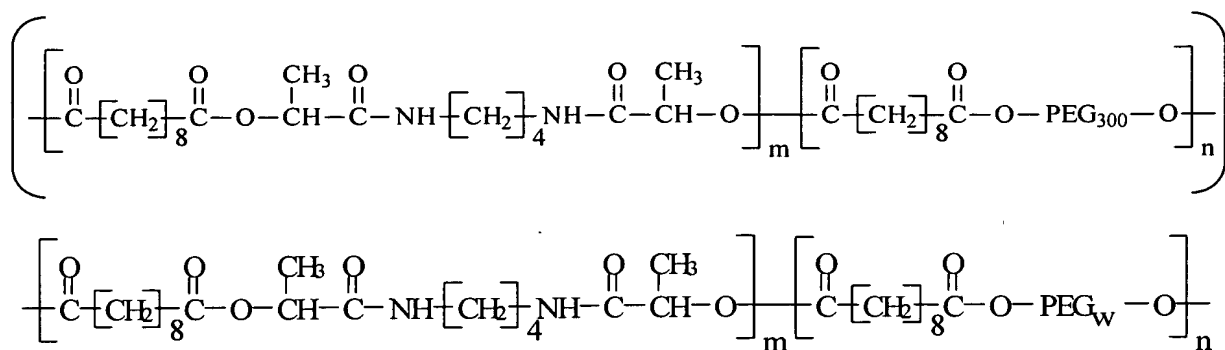
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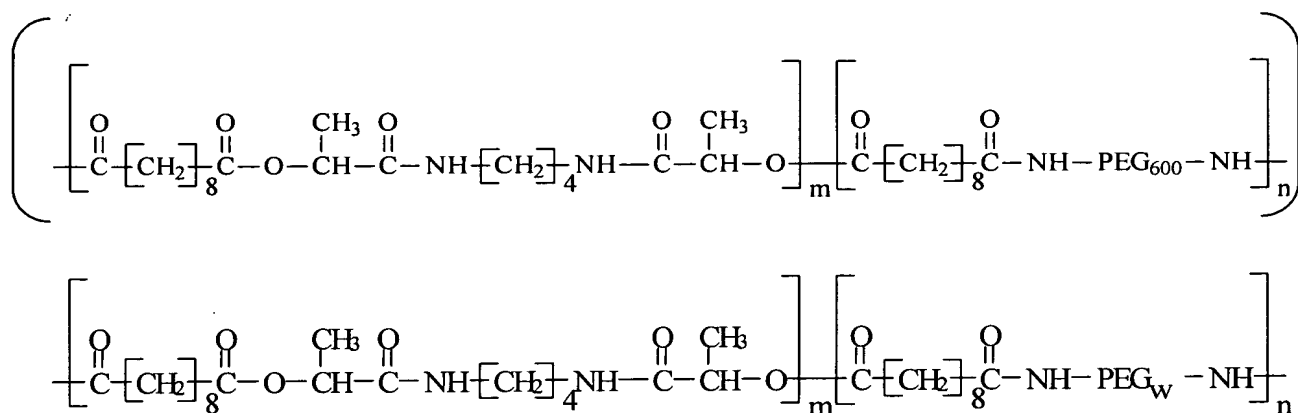
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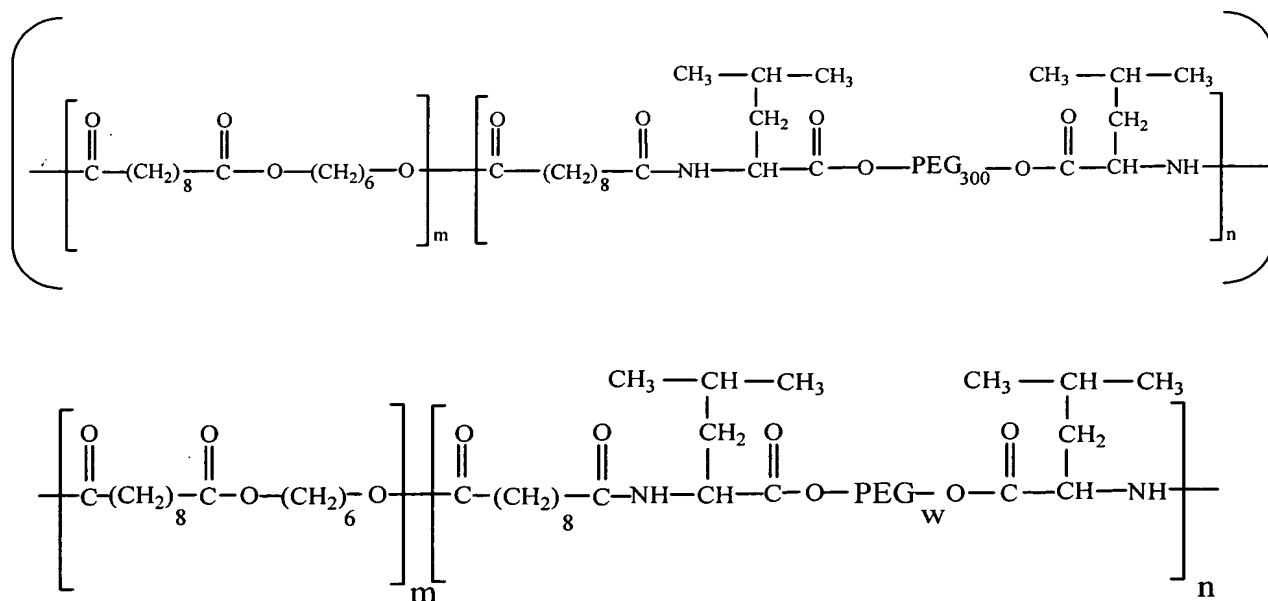
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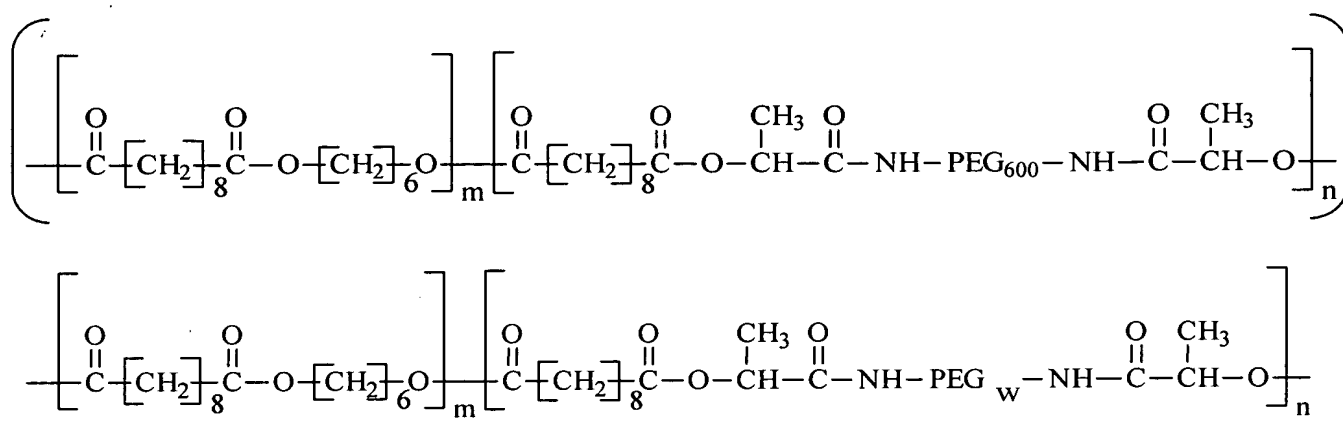


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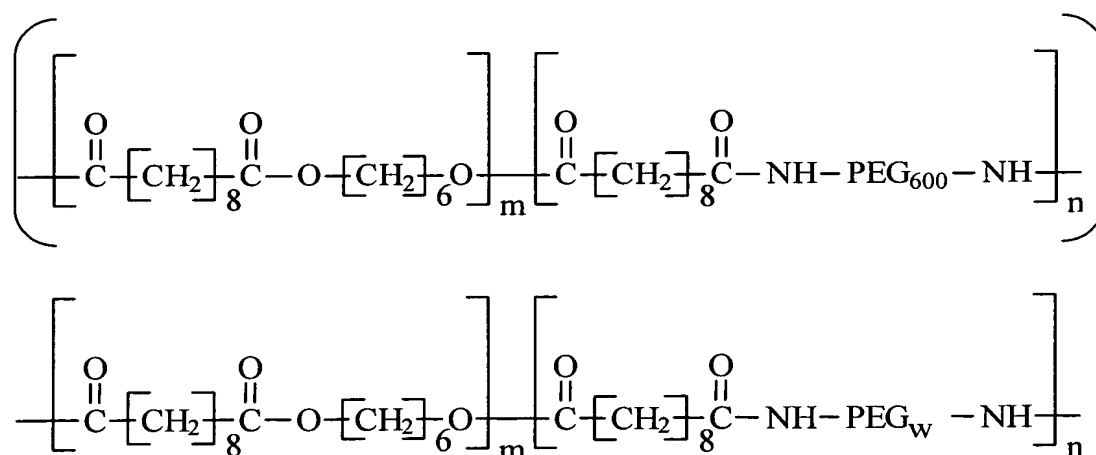


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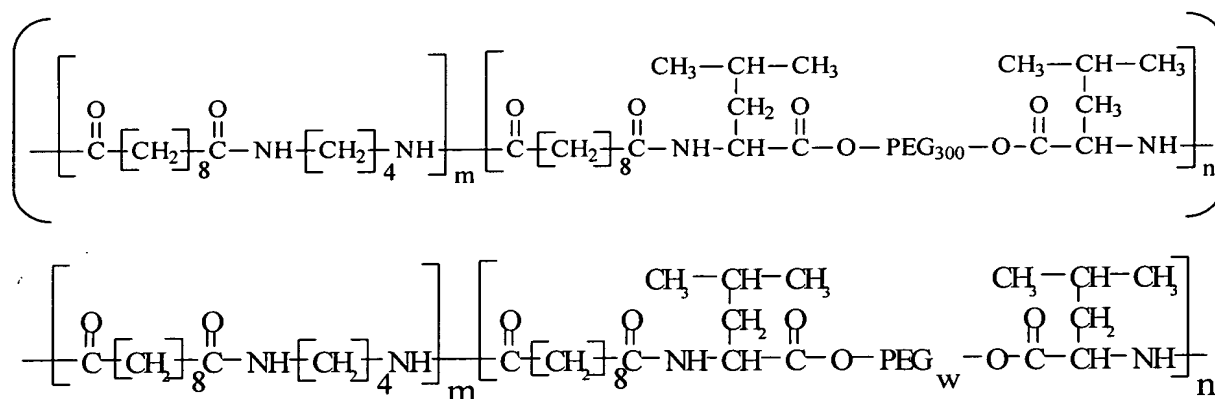




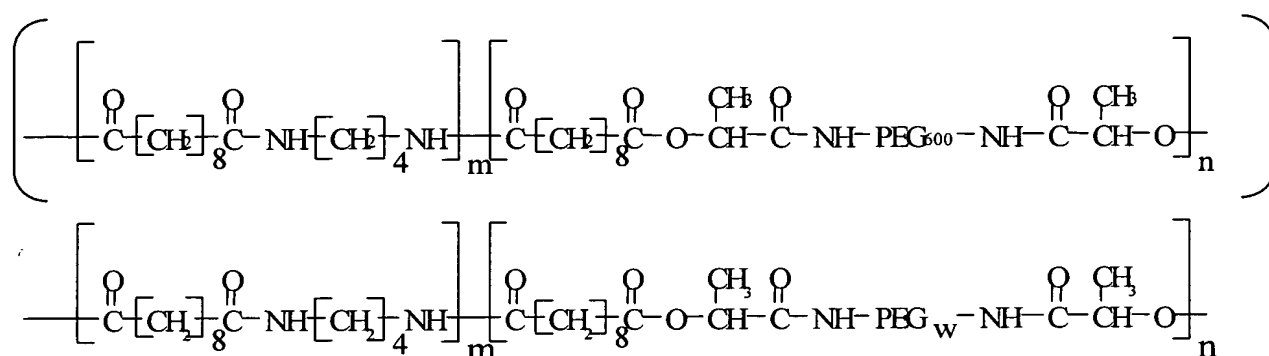
(33),



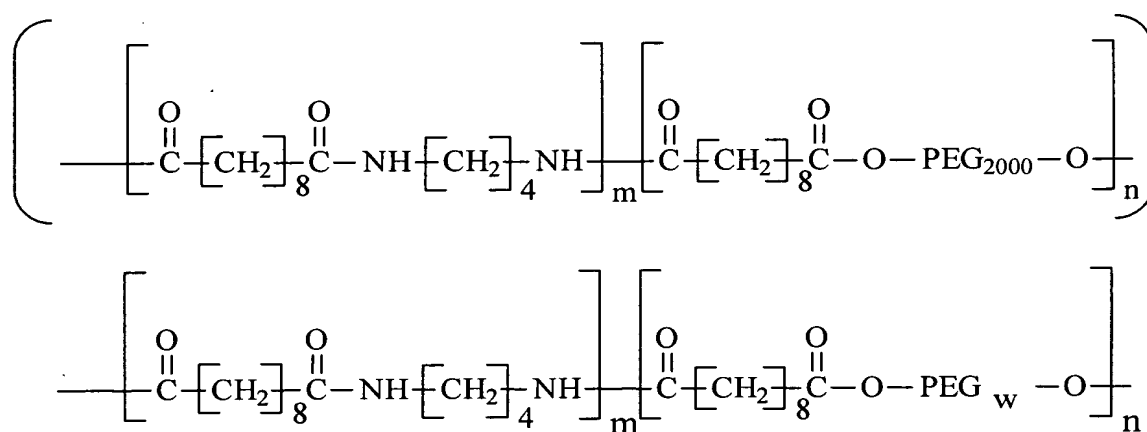
(34),



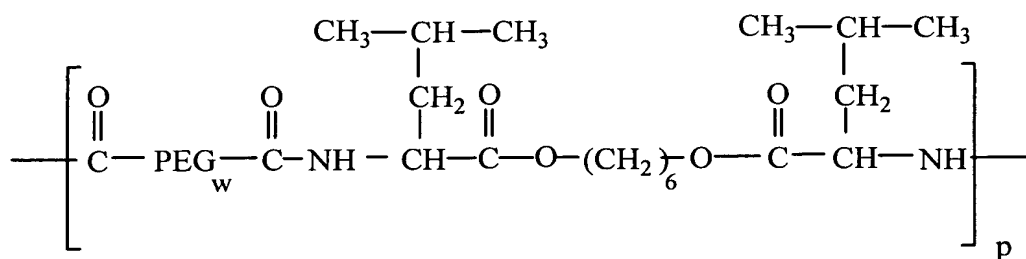
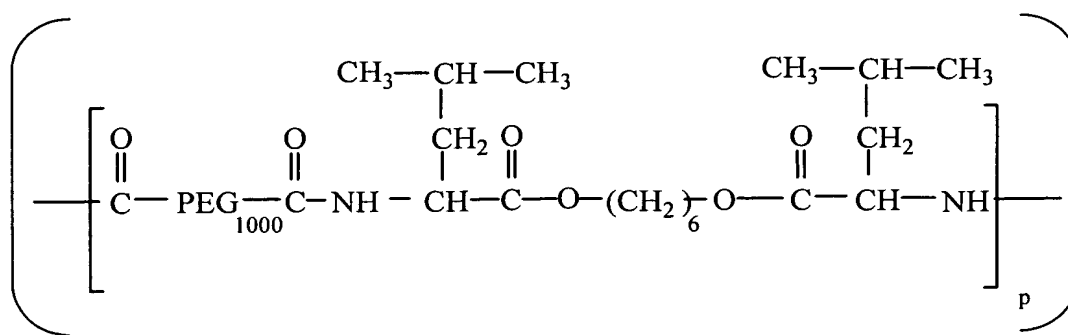
(35),



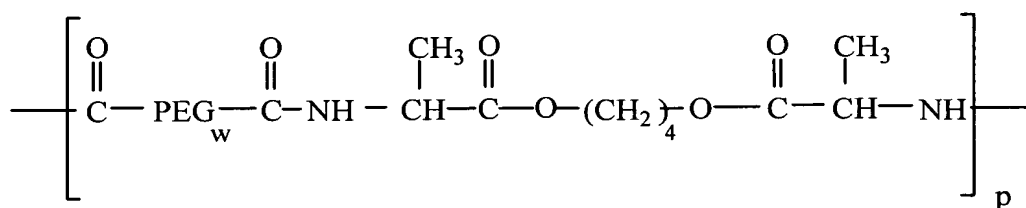
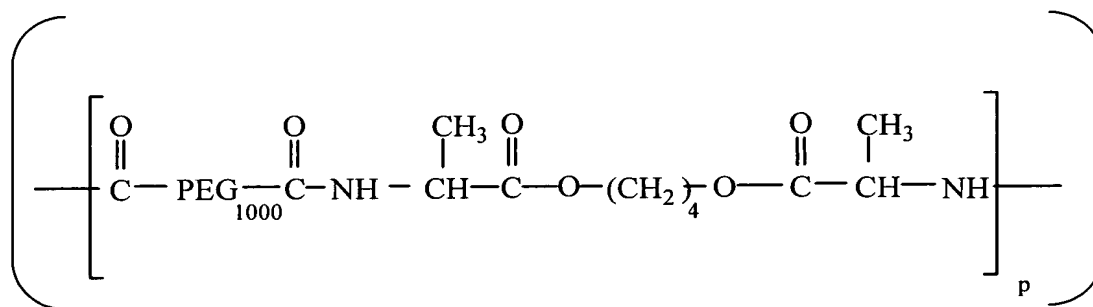
(36),



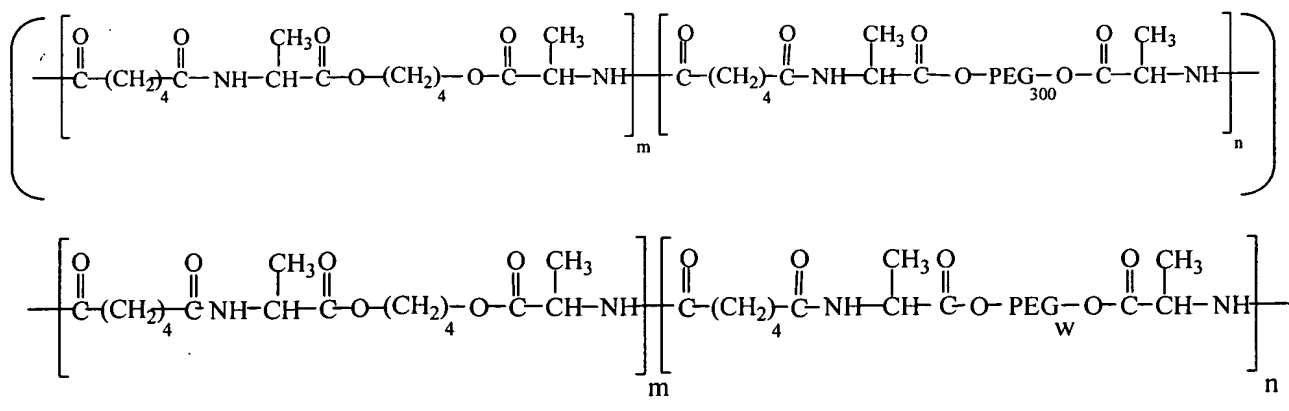
(37),



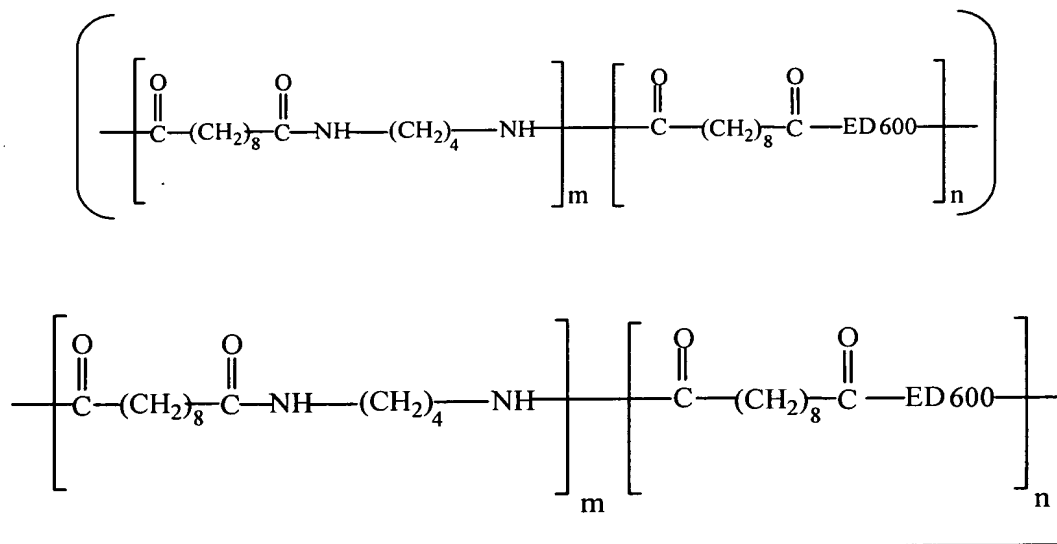
(38),



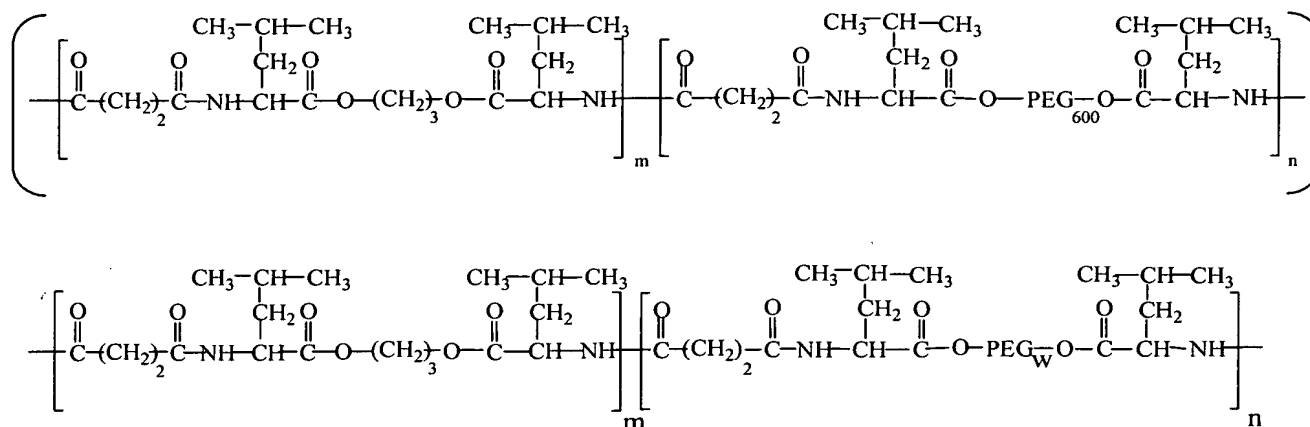
(39),



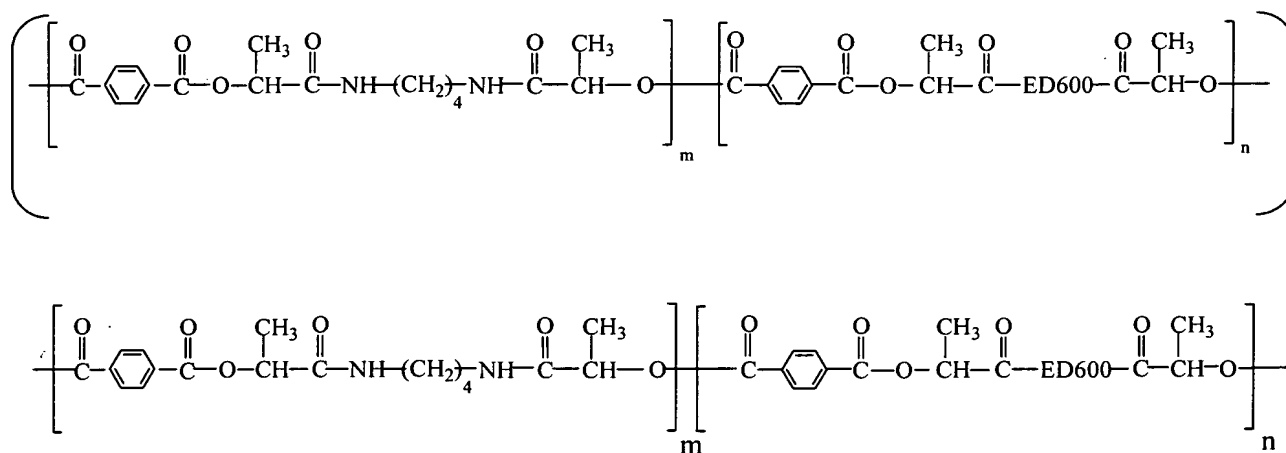
(40),



(41),



(42), and



(43);

where m and n are integers, and w is a molecular weight ranging from about 100 to about 4,000 Daltons.